Abstract

**SUPPLY CHAIN MANAGEMENT SYSTEM DETERMINING WHETHER
ORDERS RELATED TO A FAMILY OF PRODUCTS CAN BE PROMISED**

A supply chain management system processing orders related to a family of products.

5 An user may provide a parameter referred to as 'aggregate time fence' (ATF) duration

representing an amount of advance time duration after which aggregate supply of all member

items is available to satisfy the demand for any member item. For illustration, if an order for

a member item is received with a required date being after the ATF duration, the order can

be promised even if the required quantity of the first member item is not scheduled to be

10 available at of the required date, provided sufficient number of units of other member items

are scheduled to be available as of the requested date. Thus, orders are promised taking

advantage of similarities in resource requirements of member items.